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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,587	11/16/2005	Hidehiko Sugimoto	274749US2XPCT	1995
22850 7590 0879929099 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE; STREET ALEXANDRIA, VA 22314			EXAMINER	
			BARRERA, RAMON M	
			ART UNIT	PAPER NUMBER
			2832	
			NOTIFICATION DATE	DELIVERY MODE
			05/29/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) 10/541,587 SUGIMOTO ET AL. Office Action Summary Examiner Art Unit RAMON M. BARRERA 2832 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 05 February 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.3.5-8.11 and 12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1,3,5-8,11 and 12 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/S5/08)
 Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Application/Control Number: 10/541,587

Art Unit: 2832

DETAILED ACTION

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1, 3, 5-8, and 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanaqi, et al. (US 6,111,490).

Yanagi in fig. 31 and col. 21, line 54 through col. 22, line 2, discloses the claimed invention including a teaching to use the machine as either a motor or generator. Fig. 10 discloses the magnetic field sensor and high temperature superconducting material is disclosed in col. 8. Yanagi throughout his specification and figures discloses conical-shaped captured magnetic field distributions B. Yanagi did not disclose wherein the pairs of armature coils is an integral multiple of three or the superconductors is an integral multiple of two. It would have been an obvious matter of design choice to employ pairs of armature coils in integral multiples of three, since applicant has not disclosed that this solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with integral multiples of any number. Furthermore, it would have been an obvious to employ a non superconducting disk with superconducting portions rather than using a unitary superconducting disk for the purpose of conservation of expensive superconducting material. Finally, an embodiment having six pairs of armature coils and a disk having a matching six pairs of

Page 3

Application/Control Number: 10/541,587

Art Unit: 2832

superconducting portions, in contrast with Yanagi's eight, would have been an obvious matter of design choice since applicant has not disclosed that the number of coils or superconducting portions solves any stated problem or is for any particular purpose.

Response to Arguments

- 3. Applicant's arguments filed 2/5/09 have been fully considered but they are not persuasive. Applicant contends Yanagi failed to disclose coils that generate a conical-shaped magnetic field distribution. In response, Yanagi disclosed conical-shaped captured magnetic field distributions B throughout the reference. Applicant contends Yanagi failed to disclose the claimed alternating current power source, mode changeover switch, or prime mover. In response, Yanagi in col. 21, lines 50-53, disclosed an alternating current power source. A changeover switch is inherent in converting the coils from magnetizing coils to stationary armatures (col. 21, line 66 to col. 22, line 2). A prime mover is inherent in the drive system disclosed in col. 21, line 55
- THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 10/541,587

Art Unit: 2832

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to RAMON M. BARRERA whose telephone number is
(571)272-1987. The examiner can normally be reached on Monday through Friday from
11 to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ramon M Barrera/ Primary Examiner, Art Unit 2832